





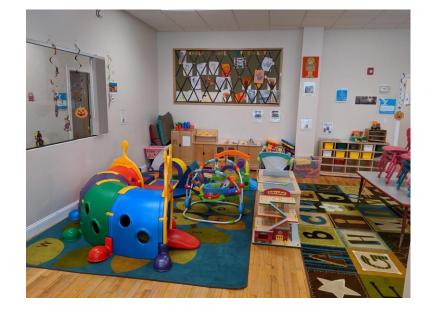
Square One Dr. Yum for all

Abigail Henry, Christine Callahan, Iha Kaul, Olivia Nuelle



Population of Focus

Low-income urban Springfield families with children younger than 5 years old

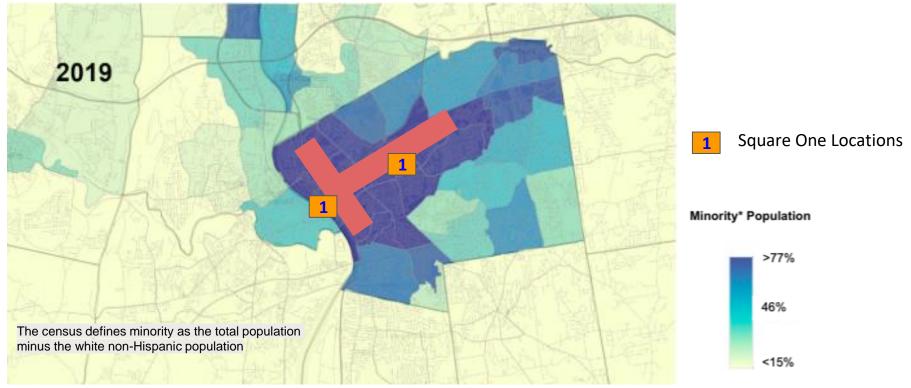


Square One principally serves community populations in **Springfield and Holyoke:**

- Nearly 90% of program participants are living at or below the poverty level
- 54% of parents earn less than \$15,000 annually
- Provides services to over 800 children each day

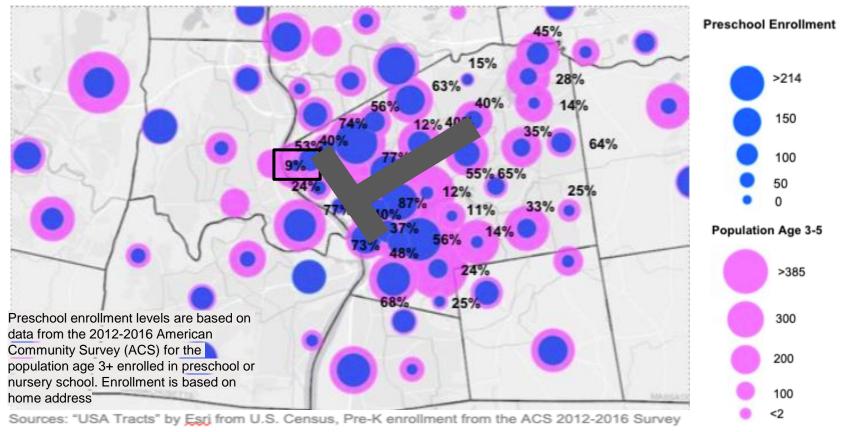
Springfield's Population of Color has been increasing

Notice the "T" Area that overlaps with with many of these populations. Keep looking out for the "T" in other maps

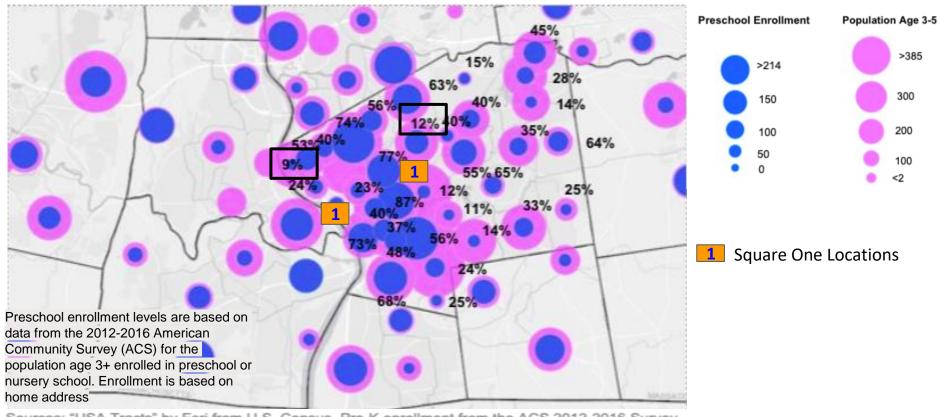


Sources: "USA Tracts" by Esti from U.S. Census, https://datausa.io/profile/geo/springfield-ma/#demographics

Springfield has varying levels of Preschool Enrollment



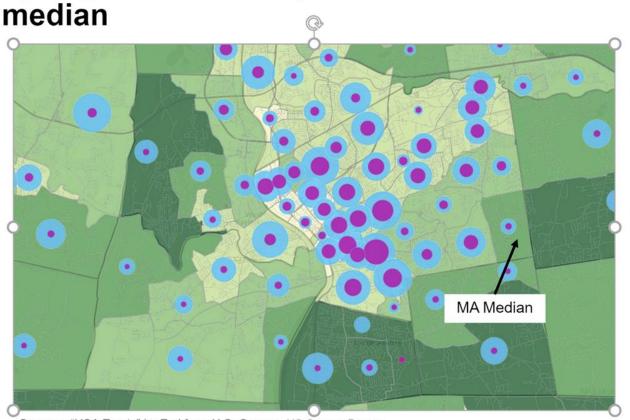
Springfield has varying levels of Preschool Enrollment



Sources: "USA Tracts" by Esri from U.S. Census, Pre-K enrollment from the ACS 2012-2016 Survey

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Springfield has many areas with income below the national



Sources: "USA Tracts" by Esri from U.S. Census, US Census Bureau, https://www.census.gov/content/dam/Census/library/publications/2017/acs/acsbr16-0

https://www.census.gov/content/dam/Census/library/publications/2017/acs/acsbr16-02.pdf,

https://www.census.gov/quickfacts/fact/table/springfieldcitymassachusetts/line Group

Nationally, median household income is \$57,617

In Massachusetts, the median household income is \$74,167

In Springfield, median household income is \$35,742



The census defines minority* as the total population minus the white non-Hispanic population

Median Household Income



Population Under 4

>460

350

250 100

<150



*this language is problematic

Springfield has many areas with income below the national

median MA Median .

Sources: "USA Tracts" by Esti from U.S. Census, US Census Bureau,

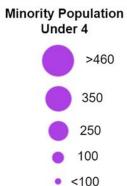
https://www.census.gov/content/dam/Census/library/publications/2017/acs/acsbr16-02.pdf,

https://www.census.gov/quickfacts/fact/table/springfieldcitymassachusetts/line ការប្រាប់

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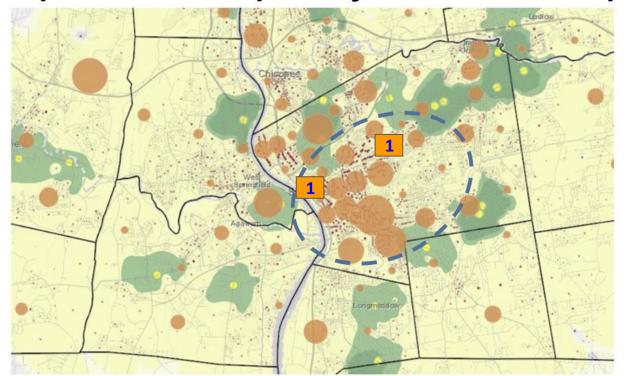
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*this language is problematic

Large areas of Springfield have limited access to supermarkets, especially in the southern part of the city

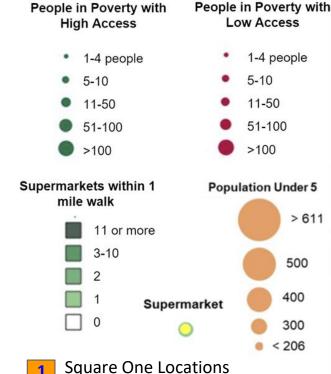


Sources: "USA Tracts" by Esri from U.S. Census, "USA Supermarket Access" by Jim Herries from Demographic data from U.S. Census and Esri Business location from infoUSA

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The supermarkets included have annual sales of at least \$1 million



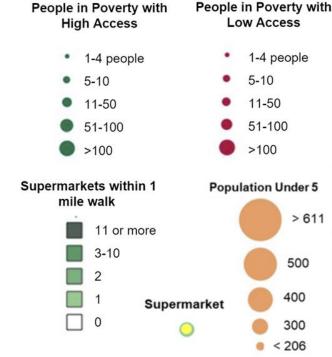
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Interprofessional Networks of Care

Square One programs and team members aim to provide interdisciplinary education and support services to families.

The Team:

- Early education and care providers
- Family support specialist/home visitors
- Social workers
- Senior research associates

Programs tailored to each families needs:

- Group, home visitation, personalized case management, emergency child-care
- Baystate physicians and medical professionals often refer expecting/new parents to Square One for services



dr.yumproject

Doctor Yum

- A website to teach patients the benefits of eating healthy
- Experiential learning
- Evidenced based model
- Problem = some ingredients are too hard find
- Piloted in 2 Square One classrooms last year
- Expanding to all Square One classrooms this year

Food Explorers! Give your Yum Score!



Keep trying that new food for a Super Yum



"Don't yuck someone's yum!"



Recreating Dr. Yum at Home

Recipe sent home to parents





Spinach - Only found at Americas (frozen, not fresh)

Chickpeas - found at all small and large stores

Tahini - Not found anywhere in Mason Square

Olive Oil - found at most stores, but expensive

Our Project: Survey Creation

Created **4 surveys** to track metrics for recent <u>Health New England grant</u> that will fund the expansion of Dr. Yum to all Square One classrooms.

- 1. Increase preschool children's observed consumption of fresh/frozen fruits & vegetables by 50%
- 2. Increase staff, family member and caretaker knowledge and awareness of health food including fresh fruit and vegetables
- 3. Decrease staff, family member, and caretaker self-reported unhealthy
- 4. Increase staff, family member, and caretaker self-reported healthy food consumption by 50%
- 5. Increase family member and caretaker advocacy and participation in supporting healthy food in school and home environments by 40%

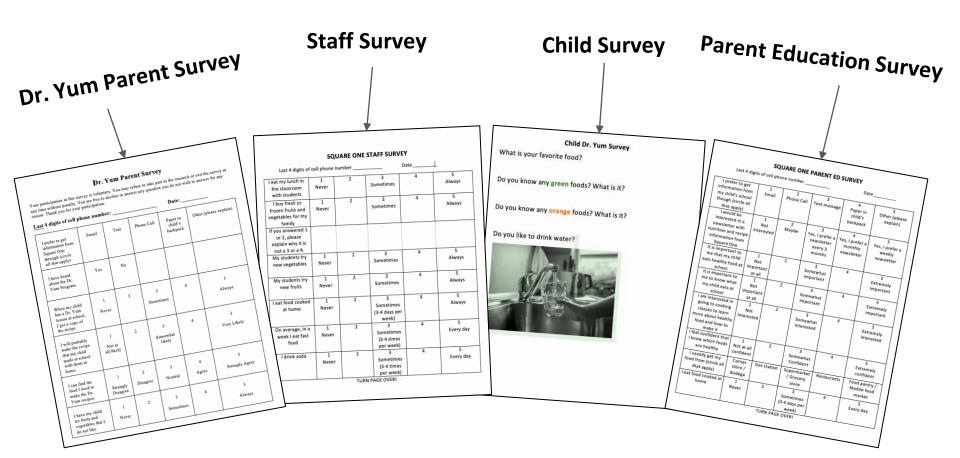
———— Child Survey

Parent/Caretaker
Education Survey

Staff Survey

Post Dr. Yum Parent Survey

Our Project: Survey Creation

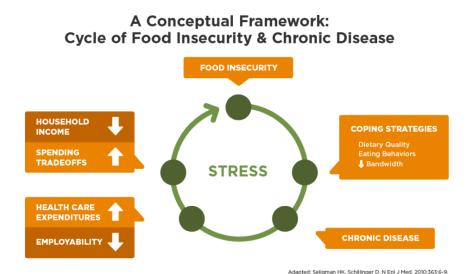


Population Specific Advocacy Issues

In Mason Square:



- 19% of households are food insecure =
 worse health outcomes
- 60% of Springfield's K-12 Students are overweight or obese
- Diabetes mortality is higher in Springfield (52.3 per 100,000) than all of Massachusetts (35.3/100,000)



Advocacy Pitch



Child care and food insecurity are priorities in the 2016 CHNA

- Square One is reimbursed \$40 per day per child
 - It costs \$63 per day

Square One teaches kids to be excited about fruits and vegetables

There is no major grocery store in Mason Square

We need to invest money in early childhood education:

- Higher education levels
- Less drug use
- Less violent crime

We need to **stop making excuses** about why supermarkets can't open in low-income neighborhoods:

- It lowers food insecurity ¹
- Better diet = better health
- Lower healthcare costs



Square One opens Springfield child therapy center with \$125,000 grant from Lego (photos)

Pictured: Jenise and Dawn

Square One relies on the creativity and hard work of its leaders who **apply for grants** and work for **fundraising** to keep running their Early Childhood Education Programs

We need to invest money in early childhood education:

- Call State Senator Lesser: (413) 526-6501
- Ask for an increase in early education reimbursement rates
- Ask them to contact Senate President Spilka and Chairman Rodrigues in support of the Early Education Workforce

We need to **stop making excuses** about why supermarkets can't open in low-income neighborhoods:

Stop&Shop

- Call Mayor Sarno: (413) 784-1200
- Ask for a supermarket in Mason Square

"We're here to make sure that in America, where a child grows up doesn't determine whether they have access to a better—healthier—future. By introducing powerful incentives for private investors to take a chance on projects—like a new, healthier grocery store—we can make that difference for America's children, while creating new jobs and services in their communities."

Key Takeaways from our Population Health Clerkship

- Square One
 - More than just childcare
 - Implementing Dr. Yum curriculum
- Food insecurity
 - Food desert
 - Lack of money, time, and education
- Lack of funds for early education





Interprofessional exposure

We learned:

- Pharmacists and medical doctors have different specialties but rely on one another
- Different professions allow more perspectives to be explored
- As an interprofessional team we are able to teach each other daily and work together to solve problems within our community
- Having an understanding of each profession, respecting each profession and making lifelong friends







What questions do you have?





REFERENCES

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